

We claim:

1. An electrically motorized pump for use in a fluid comprising:

a motor;

a pump; and

at least one sleeve bearing wherein a portion of the sleeve bearing is made of a synthetic resin composition obtained by uniformly blending powder of RBC or CRBC with fibers and a resin, the rotating parts of the motor and the pump being rotatably supported by the sleeve bearing.

2. The electrically motorized pump of Claim 1, wherein the motor comprises:

a stator;

a housing with collar; and

a can seal with collar, the stator being located in an outer peripheral space between the housing and the can seal.

3. The electrically motorized pump of Claim 2, wherein the motor further comprises:

a rotor;

a shaft; and

at least one sleeve, the shaft and the sleeve forming the sleeve bearing and the rotor being rotatably supported by the sleeve bearing forming a rotor assembly, the rotor assembly being located in an inner space of the can seal.

4. The electrically motorized pump of Claim 1, wherein a fluid may freely flow from the impeller side to the rotor side.

5. The electrically motorized pump of Claim 3, wherein the synthetic resin composition has a ratio by mass of fine powder of RBC or CRBC to the resin of 30 to 90 : 70 to 10.

6. The electrically motorized pump of claim 3, wherein the fibers are selected from a group consisting of inorganic fibers and organic fibers.

7. The electrically motorized pump of claim 3, wherein the fibers are selected from a group consisting of short fibers and long fibers.

8. The electrically motorized pump of claim 3, wherein the content ratio of fibers is 1- 30% by weight based on weight of the entire synthetic resin composition.

9. The electrically motorized pump of claim 3, wherein the fibers are glass fiber.

10. The electrically motorized pump of Claim 3, wherein the sleeve of the sleeve bearing has at least one spiral groove on the inner face of the sleeve.

11. The electrically motorized pump of Claim 3, wherein the shaft has at least one spiral groove on its surface.

12. The electrically motorized pump of Claim 5, wherein the resin used in making the sleeve is selected from a group consisting of Nylon 66, Nylon 6, Nylon 11, Nylon 12, polyphthalamide,

polyacetal, polybutylene terephthalate, polyethylene terephthalate, polypropylene, polyethylene, and polyphenylene sulfide.

13. The electrically motorized pump of Claim 5, wherein the resin used in making the sleeve includes at least two members of the group consisting of Nylon 66, Nylon 6, Nylon 11, Nylon 12, polyphthalamide, polyacetal, polybutylene terephthalate, polyethylene terephthalate, polypropylene, polyethylene, and polyphenylene sulfide.

14. The electrically motorized pump of Claim 5, wherein the average particle diameter of the powder of RBC or CRBC is 300 µm or less.

15. The electrically motorized pump of Claim 5, wherein the average particle diameter of the powder of RBC or CRBC is 10 to 50 µm.

16. The electrically motorized pump of Claim 5, wherein the shaft is made of corrosion – resistant steel type metal.

17. The electrically motorized pump of Claim 5, wherein the shaft is made of the synthetic resin composition.

18. The electrically motorized pump of Claim 17, wherein the resin used in making the shaft is selected from a group consisting of nylon 66, nylon 6, nylon 11, nylon 12, poly acetal, poly butylenes terephthalate, polyethylene terephthalate, polypropylene, polyethylene, and poly phenylene sulfide.

19. The electrically motorized pump of Claim 17, wherein the resin used in making the shaft includes at least two members of the group consisting of nylon 66, nylon 6, nylon 11, nylon 12,

poly acetal, poly butylenes terephthalate, polyethylene terephthalate, polypropylene, polyethylene, and poly phenylene sulfide.